

# Mainsail: 7000714 Yorgos-1 MainsailV1.des

Design Info  
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Design File:  
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2023 Order\Need to be Confirmed\7000714 Yorgos\70

Initial Design Date: 23/9/2023  
Boat:

Comments:

Client:

Design Data  
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Main

Measurements

Luff geodesic:	17.753m
Leech geodesic:	18.379m
Foot geodesic:	6.209m
Head geodesic:	0.155m
Upper width (MUW):	1.137m
Three-quarter width (MTW):	2.100m
Half width (MHW):	3.774m
Quarter width (MQW):	5.145m
Foot median:	18.030m
ORC Mainsail area:	63.045m?
Surface area:	64.543m?
Clew height:	0.450m
Mast rake:	0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
83.333%	1.533m	0.265m	73.930?	14.801m	15.264m	Full
66.667%	2.783m	0.426m	73.930?	11.861m	12.212m	Full
50.000%	3.829m	0.429m	73.930?	8.923m	9.159m	Full
33.333%	4.771m	0.364m	73.930?	5.986m	6.106m	Full
16.667%	5.545m	0.204m	73.930?	3.049m	3.053m	Full

Reefing Points

1, Luff: 2.217m ; Leech: 2.271m ; Offset: 0.000m ; Number Eyelets: 4  
2, Luff: 4.878m ; Leech: 4.995m ; Offset: 0.000m ; Number Eyelets: 4  
3, Luff: 7.717m ; Leech: 7.910m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 4.434m ; Leech: 4.160m ;  
2, Luff: 9.226m ; Leech: 9.188m ;  
3, Luff: 13.309m ; Leech: 13.531m ;

Luff Slides

1, Position: 1.524m  
2, Position: 4.517m  
3, Position: 7.454m  
4, Position: 10.392m  
5, Position: 13.331m  
6, Position: 16.277m

Luff Curve

		Fanned Luff (@ 5.00% [0.309m])	Before BSeam
17.752m,	0.000m	100% (17.753m) :	0.000m
15.540m,	-0.041m	90% (15.978m) :	0.066m
13.314m,	-0.070m	80% (14.202m) :	0.124m
11.083m,	-0.083m	70% (12.427m) :	0.165m
8.876m,	-0.084m	60% (10.652m) :	0.187m
6.615m,	-0.078m	50% (8.877m) :	0.193m
4.438m,	-0.062m	40% (7.101m) :	0.189m
2.212m,	-0.035m	30% (5.326m) :	0.167m
0.000m,	0.000m	20% (3.550m) :	0.125m
		10% (1.776m) :	0.062m
		0% (0.000m) :	0.000m

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Seam Allowances			
Zone: 1	Split	Radial	Cross
	0.045m	0.045m	0.045m

Edge Excesses			
Sail:	Luff	Leech	Foot
	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	53.08
Radial/Vertical	0.00
Bi-Radial Split	0.00

Materials

Material	Area (m <sup>2</sup> )	Panels
Material 1	64.58	1,2,3,4,5 6,7,8,9,10 11,12,13,14,15

